Building Capacity for Environmental Leadership

Vision: Integrated planning in which all plans are infused with sustainability ... Boston National Historic Park is viewed as a model ... Economic sustainability is reached along with environmental sustainability. Goals Long-Term Greening Baseline Short-Term Mid-Term **Targets** (0-1 year) (1-5 years) (5 years +) • Prepare EMS using NPS EMS • Planning is not currently • Use EMS as a tool [Ruth and Green • Update the GMP with Planning guidance when released; follow up sustainability as an integrated and there is no greening Teaml on EMS training integral component (use master plan. • Try to obtain funds for EMS • Plans were developed for all sites • Prepare a business plan for the park development true sustainability as one except Navy Yard in 1980; plans to include public-private of the alternative • Conduct EMS training as soon as scenarios in the EIS) were revised in 1987 and Navy possible partnerships, leaseable space, Yard plan was developed. marketing, opportunities [Terry] • Begin to think about • Develop policy and goals statements • A Long Range Interpretation Plan social sustainability for • Begin list of products purchased was developed in 2002. the Navy Yard • Review guidance from EPA community, including • Five major construction projects • Obtain professional support for healthy lifestyles, are scheduled. planning [Terry and Ruth] cultural events to bring • Re-activate Green Team [Terry] people to the area • An audit has been conducted. Audits • A sustainability and security • Communicate charrette results to staff • Conduct partner/site charrettes Training and charrette was held last year. and partners [Terry and Dave] [division chiefs] Education • Conduct charrettes for staff and partners [division chiefs] **Cross-Cutting Goals** Education/ • Consider a public relations event to Interpretation highlight sustainability at the Navy Yard Training Needs

Procurement

Transportation

Vision: Coherent and easily understandable network to maximize visitors' use of public transportation ... Park vehicle fleet that meets needs and minimizes fossil fuel use and CO2 emissions ... Park vehicle fleet O&M that is as green as possible.

	Goals			
Greening Targets	Baseline	Short-Term (0-1 year)	Mid-Term (1-5 years)	Long-Term (5 years +)
Visitor transport	 Public transportation reaches some park locations but not the Navy Yard The Mass Bay Coalition is working on a transportation plan for the region; park staff participate. There is limited parking at the Navy Yard and other downtown sites; reduced rate parking at the Navy Yard is not well-publicized. Tour bus parking has been restricted for security reasons No shuttles are run by the park, all are private. Signage on roads is bad. Joint tickets do not include shuttles. Brochures and Web site do not provide adequate information on public transportation options 	 Review brochures and Web sites to make sure they include information on public transportation options [Interpretation staff] Work with Freedom Trail Trolley to optimize sustainability – close the loop for walkers, include trolley in one-ticket system, connect to public transportation [Ruth, Bill Foley] Continue to work with the Mass Bay Coalition including bike lanes, harbor boat connections, trolleys and shuttles to connect transport with park 	 Improve signage to guide visitors to the Navy Yard Incorporate sustainable strategies and incentives in resolving tour bus parking issues Provide preferential parking for alt fuel buses Shade parking lot Use paving the reduces runoff Mitigate runoff Continue to work with Mass Bay Coalition Continue to work on visitor shuttle issues and watch Adams National Historic Site experience 	
Vehicle fleet/ alternative fuels	 There are now 2 electric vehicles with 10 more arriving soon; 5-6 gasoline powered cars; 7-8 gasoline powered pickup trucks; 1 diesel truck; no bicycles except for a few ranger patrols There is no on-site filling station; there is on-site maintenance; natural gas and biodiesel filling stations are available in the region. 	 "Right size" the fleet – how should electric vehicles be used? What vehicles can be eliminated or replaced by electric vehicles or bicycles? Eliminate GSA leased gasoline or diesel vehicles and replace with electric or green leases [Dave, Gene, Pat, rangers, Volpe] Install bike racks as part of installation of security structures [protective rangers] 	 Look at renewable energy sources for electric vehicle recharge Meet all departmental requirements for fleet [grounds crew, auto maintenance, facility manager with help from Cape Cod National Seashore] Obtain more alternative fuel vehicles, including the visible employee shuttle Prepare a Fleet Management Plan 	

Cross-Cutt	An employee shuttle/ minivan runs between the Navy Yard and downtown administrative offices; there is a state program to furnish alternative fuel vans, fuel, insurance – park must provide the driver ting Goals	 Develop a list of transportation requirements [Willie] Use biolubricants [grounds crew, auto maintenance with help from Cape Cod] Research options for employee shuttle between Navy Yard and downtown offices – green lease or Mass Caravan program [park administrative staff] 	after DOI Policy and Plan are issued in Summer 2002 and use Cape Cod plan as an example	
Education / Interpretation		 Investigate demonstration charging station that uses renewable energy for at least one electric vehicle Develop "take home" messages about transportation such as amount of CO2 saved by walking Freedom Trail [Interpretation staff] Link to K-12 education programs [Sheila Cook-Kayser] 	Conduct a special event showcasing sustainable transportation such as a "bike in" or alternative vehicle show on the pier	Achieve 100% vehicles run on renewable fuels
Training Needs				
Procurement		See above on vehicle lease/purchase	See above on vehicle lease/purchase	See above on vehicle lease/purchase

Facilities

Vision: Economic sustainability ... Improved functionality (campus concept) ... Showcase a comprehensive project such as Building 5 Visitor Center

Greening Targets	Baseline	Goals		
		Short-Term (0-1 year)	Mid-Term (1-5 years)	Long-Term (5 years +)
Green Process/ Facilities	 5 construction projects are scheduled including new Visitor Center in Building 5 Piecemeal funding is a major barrier 	 Develop park SOPs for planning, design, procurement, and products [Ruth and Procurement Office] Gather baseline on inventory – utilities, stormwater collection, sanitary system, electricity [Gene and Pat Laffey] Develop a strategic campus plan for Navy Yard [Terry] Develop a comprehensive energy management/conservation plan [Gene, Pete, and Dave] Pete isn't on list – get last name Develop business management plan [Terry, Dave, Pete, consultant] 	 Pilot a complete sustainable project Implement a stormwater management program including rainwater collection and bioretention/ bioremediation Implement a business plan that includes more favorable terms with partners, creation of new partners, funds generated go to sustainable initiatives, a Friends group that focuses on sustainability Implement alternative energy initiatives including interpretation of these initiatives; consider ground source heat pumps, wind, tides (longer term), co-generation, etc. Prepare a detailed master plan with priorities Ensure accommodation for alternative transportation such as bike racks, recharge stations 	Use the Navy Yard as a model for cleanup of ground and harbor Fully implement bioretention and biormediation Create a green landscape Achieve economic sustainability – all projects are revenue neutral or positive Optimize revenue stream from available assets Optimize O&M revenue Upgrade all buildings to minimize operating costs
LEED	No LEED-certified buildings			LEED certify all buildings to the extent possible
Cross-Cutti	ng Goals			
Education/ Interpretation				• Integrate all sustainability efforts into interpretation
Training Needs				

Procurement	Develop boilerplate criteria for RFPs. RFQs, etc. using existing models from GSA, Navy, DSC (Ruth. Bill Barlow)	n
	Marcy)	

Operations and Maintenance

Vision: Maintenance becomes a proactive rather than reactive division ... Park maintenance optimizes resources use by minimizing waste, conserving energy and water, eliminating toxins, using recycled, renewable and green products and materials ... Green O&M is interpreted and shared broadly ... Staff level is adequate to enable success.

		Goals		
Greening Targets	Baseline	Short-Term (0-1 year)	Mid-Term (1-5 years)	Long-Term (5 years +)
Overall			Develop a cyclic maintenance and prevention program	Evaluate progress and successDocument activities
Landscaping	 Native plants – plant inventory Use IPM practices Looking into rainwater for irrigation 	Get state certification for IPM Coordinator [Jimmy Gardiner]		
Hazardous Waste	 Are addressing audit findings Have removed all refrigerants, paints, metals, air conditioners, refrigerators, creosote timbers Have reduced quantities of paints, chemicals when purchasing 	Review the audit results with staff and get training and buy-in; assign responsibilities (Gene)		
Solid Waste	• 2 recycle containers	Develop a comprehensive recycling program	Develop a waste management program including a recycling plan	Update plan
Water	Use 13.1 million gallons annually	 Begin planning to collect rainwater for irrigation [Gene] Collect water data annually Determine stormwater permit needs Consider stormwater run-off issues [Gene] 	Develop a stormwaterand rainwater collection plan	• Update plan
Energy		 Develop relationship with ESPC "Select Energy" for retrofits, etc. Prepare an energy management/ conservation/ retrofit plan – use local GSA expertise Work with interpretation on energy messages Gather drawings and plans for utilities 	Develop an energy management plan	• Update plan

		to prepare a comprehensive overview	
Janitorial Services	• Use green products	 Investigate new products, in addition to greener products now in use, and learn from other parks' successes Troubleshoot problems (e.g., waterless urinals) Train staff on new products and processes 	
Building O&M			
Vehicle Fleet O&M	 Stop washing park vehicles in maintenance shop Introducing electric vehicles into fleet 		
Cross-Cutti	ng Goals		
Education/ Interpretation		See energy above	Interpret sustainability
Training Needs		See janitorial services above	
Procurement			

Interpretation and Education

Vision: Visitors and staff are motivated by an understanding of the use of resources (energy, waste, water, etc.) through history and how decisions we make today affect the future. Messages

- Environmental and economic benefits of sustainability
- We are part of history and the future
- Our daily decisions affect the future (The natural world,...)
- "Freedom" as energy independence (from energy dependence)
- Declaration of Energy Dependence or Independence? (from non-renewables)

	Baseline	Goals		
Greening Targets		Short-Term (0-1 year)	Mid-Term (1-5 years)	Long-Term (5 years +)
Overall	Not really doing anything to educate the public about greening activities Interpreters do not know enough about what other divisions are doing	 Conduct historical research on energy use, waste, resource use, materials at the Navy Yard [Bill Foley] Design a logo for sustainability at BHP to use in waysides, on vehicles, etc. – run a contest to allow school children to design the logo Identify partners and interns to participate in efforts, including historical research Highlight 2 greening activities – harbor cleanup and electric vehicles 	 Evaluate achievements of first year Prepare an exhibit on the use of resources through history for the Visitor Center Develop education programs with other area parks Develop a "clean trail" along the Freedom Trail highlighting sustainability initiatives using the logo; involve partners along the Trail 	 Evaluate and refine the program Make the Freedom Trail free of non-renewables Tell the story of the greening effort Create messages for visitors on what they can do at home Conduct a visibility campaign on television Win or at least apply for a Closing the Circle award
Messages and Methods – Leadership		Demonstrate ongoing management support [Terry, Dave, Bill Foley]	Review Interpretation Plan and weave sustainability into existing programs	
Messages and Methods – Planning				
Messages and Methods – Transportation		 Place logo and signs on electric and other alternative fuel vehicles Investigate use of wind power for at least one electric vehicle charging station and interpret 	Prepare an exhibit on electric vehicles	

Messages and Methods – Facilities	Work on Building 5 renovation to green the scope and for exhibits		
Messages and Methods –			
O&M			
Messages and Methods – Concessions			
Messages and Methods – Procurement			
Cross-Cutting Goals			
Education/ Interpretation	Conduct staff education and training charrette including audit results and green survey [Gene and Marcy]	 Conduct tailgates and other staff training sessions Weave sustainability into the Teacher Resource Workshop 	
Training Needs			
Procurement			